In the Claims

1-17 (canceled).

- 18 (currently amended). A polynucleotide expression construct comprising:
- (a) a polynucleotide sequence encoding a plant 2-phenylethanol dehydrogenase enzyme, or an enzymatically active fragment thereof; or
- (b)—a polynucleotide sequence encoding a plant—phenylalanine aromatic amino acid decarboxylase, or an enzymatically active fragment thereof; or
- (c) both a polynucleotide sequence encoding a plant 2-phenylethanol dehydrogenase enzyme, or an enzymatically active fragment thereof and a polynucleotide sequence encoding a plant phenylalanine decarboxylase, or an enzymatically active fragment thereof.

19-33 (canceled).

- 34 (currently amended). A cell transformed with:
- (a) a polynucleotide encoding a plant 2 phenylethanol dehydrogenase enzyme, or an enzymatically active fragment thereof; or
- (b) a polynucleotide encoding a plant phenylalanine aromatic amino acid decarboxylase, or an enzymatically active fragment thereof; or
- (c) both a polynucleotide sequence encoding a plant 2-phenylethanol dehydrogenase enzyme, or an enzymatically active fragment thereof and a polynucleotide sequence encoding a plant phenylalanine decarboxylase, or an enzymatically active fragment thereof.
- 35 (currently amended). The cell according to claim 34, wherein said polynucleotide is provided in an a polynucleotide expression construct according to claim 18.

- 36 (currently amended). A plant, plant tissue, or plant cell transformed with or bred to contain:
- (a) a polynucleotide encoding a plant 2 phenylethanol dehydrogenase enzyme, or an enzymatically active fragment thereof; or
- (b)—a polynucleotide encoding a plant-phenylalanine <u>aromatic amino acid</u> decarboxylase, or an enzymatically active fragment thereof; or
- (c) both a polynucleotide sequence encoding a plant 2-phenylethanol dehydrogenase enzyme, or an enzymatically active fragment thereof and a polynucleotide sequence encoding a plant phenylalanine decarboxylase, or an enzymatically active fragment thereof.

37-46 (canceled).

- 47 (currently amended). A method for providing a plant with increased flavor or fragrance, said method comprising incorporating in said plant:
- (a) a polynucleotide encoding a plant 2 phenylethanol dehydrogenase enzyme, or an enzymatically active fragment thereof; or
- (b) a polynucleotide encoding a plant-phenylalanine aromatic amino acid decarboxylase, or an enzymatically active fragment thereof; or
- (c) both a polynucleotide sequence encoding a plant 2-phenylethanol dehydrogenase enzyme, or an enzymatically active fragment thereof and a polynucleotide sequence encoding a plant phenylalanine decarboxylase, or an enzymatically active fragment thereof and expressing the polypeptide encoded by said polynucleotide.

48-57 (canceled).

58 (currently amended). A transgenic plant, plant tissue, or plant cell, wherein said plant, plant tissue or plant cell comprises incorporated in the genome of said plant, plant tissue, or plant cell:

- (a) a polynucleotide encoding a plant 2-phenylethanol dehydrogenase enzyme, or an enzymatically active fragment thereof; or
- (b) a polynucleotide encoding a plant-phenylalanine aromatic amino acid decarboxylase, or an enzymatically active fragment thereof; or
- (e) both a polynucleotide sequence encoding a plant 2-phenylethanol dehydrogenase enzyme, or an enzymatically active fragment thereof and a polynucleotide sequence encoding a plant phenylalanine decarboxylase, or an enzymatically active fragment thereof.

59-93 (canceled).

94 (new). The expression construct according to claim 18, wherein said polynucleotide encodes an aromatic amino acid decarboxylase of tomato.

95 (new). The expression construct according to claim 18, wherein said decarboxylase comprises the amino acid sequence shown in SEQ ID NO: 5, SEQ ID NO: 7, SEQ ID NO: 9, or SEQ ID NO: 13, or an enzymatically active fragment thereof, or said decarboxylase has sequence identity of 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, or 99% with the amino acid sequence shown in SEQ ID NO: 5, SEQ ID NO: 7, SEQ ID NO: 9, or SEQ ID NO: 13, and exhibits aromatic amino acid decaboxylase enzymatic activity.

96 (new). The expression construct according to claim 18, wherein said decarboxylase comprises the amino acid sequence shown in SEQ ID NO: 5, or an enzymatically active fragment thereof.

97 (new). The expression construct according to claim 18, wherein said decarboxylase comprises the amino acid sequence shown in SEQ ID NO: 7, or an enzymatically active fragment thereof.

- 98 (new). The expression construct according to claim 18, wherein said decarboxylase comprises the amino acid sequence shown in SEQ ID NO: 9, or an enzymatically active fragment thereof.
- 99 (new). The expression construct according to claim 18, wherein said decarboxylase comprises the amino acid sequence shown in SEQ ID NO: 13, or an enzymatically active fragment thereof.
- 100 (new). The expression construct according to claim 18, wherein said polynucleotide comprises the nucleotide sequence shown in SEQ ID NO: 4, SEQ ID NO: 6, SEQ ID NO: 8, or SEQ ID NO: 12, or said polynucleotide comprises a nucleotide sequence that hybridizes under stringent hybridization conditions with the nucleotide sequence shown in SEQ ID NO: 4, SEQ ID NO: 6, SEQ ID NO: 8, or SEQ ID NO: 12, or the complement thereof, and said polynucleotide encodes a polypeptide having aromatic amino acid decarboxylase enzymatic activity.
- 101 (new). The expression construct according to claim 18, wherein said polynucleotide comprises the nucleotide sequence shown in SEQ ID NO: 4.
- 102 (new). The expression construct according to claim 18, wherein said polynucleotide comprises the nucleotide sequence shown in SEQ ID NO: 6.
- 103 (new). The expression construct according to claim 18, wherein said polynucleotide comprises the nucleotide sequence shown in SEQ ID NO: 8.
- 104 (new). The expression construct according to claim 18, wherein said polynucleotide comprises the nucleotide sequence shown in SEQ ID NO: 12.
- 105 (new). The expression construct according to claim 18, wherein said expression construct comprises one or more regulatory elements operably linked to said polynucleotide.

106 (new). The expression construct according to claim 105, wherein said regulatory element is one or more of a promoter, transcription termination sequence, translation termination sequence, enhancer, or a polyadenylation sequence.

107 (new). The expression construct according to claim 106, wherein said promoter is a promoter functional in a plant cell.

108 (new). The expression construct according to claim 107, wherein said promoter provides for overexpression of said polynucleotide sequence.

109 (new). The expression construct according to claim 107, wherein said promoter is a seed-specific promoter, a tissue-specific promoter, a constitutive promoter, a developmentally-regulated promoter, or an inducible promoter.

110 (new). The expression construct according to claim 109, wherein said constitutive promoter is a CaMV promoter, ubiquitin promoter, actin promoter, or NOS promoter.

111 (new). The expression construct according to claim 109, wherein said tissue-specific promoter is a fruit-specific promoter.

112 (new). The expression construct according to claim 111, wherein said fruit-specific promoter is an E8 promoter, a hybrid E4/E8 promoter, an LeExp-1 promoter, or a polygalacturonase- β subunit promoter.

113 (new). The expression construct according to claim 109, wherein said tissue-specific promoter is a flower organ-specific promoter.